



# Interstate Oil and Gas Compact Commission

## 2021 Knowledge-Sharing Project Update

### Energy Resources, Research and Technology Committee

Kaitlyn Smith, Technical Coordinator

November 8, 2021

# Agenda

**Mission of the Knowledge-Sharing Project**

**Process of Updating Portal for 2021**

**Technical Materials on Portal**

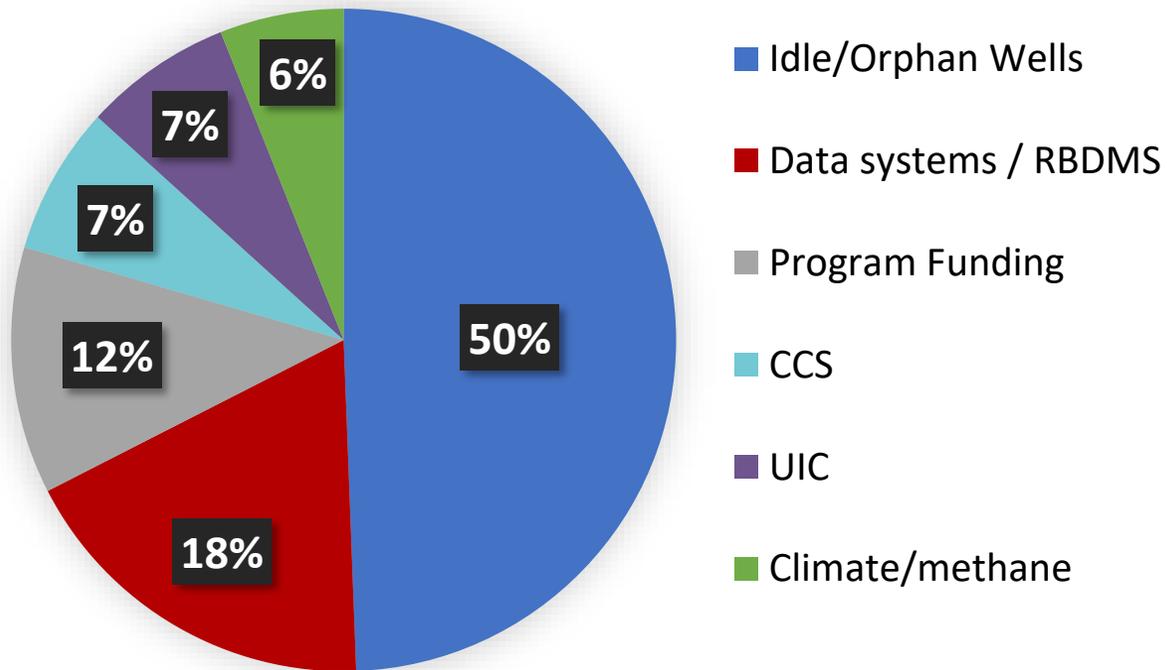
**Portal Going Forward**

# Mission of the Knowledge-Sharing Project

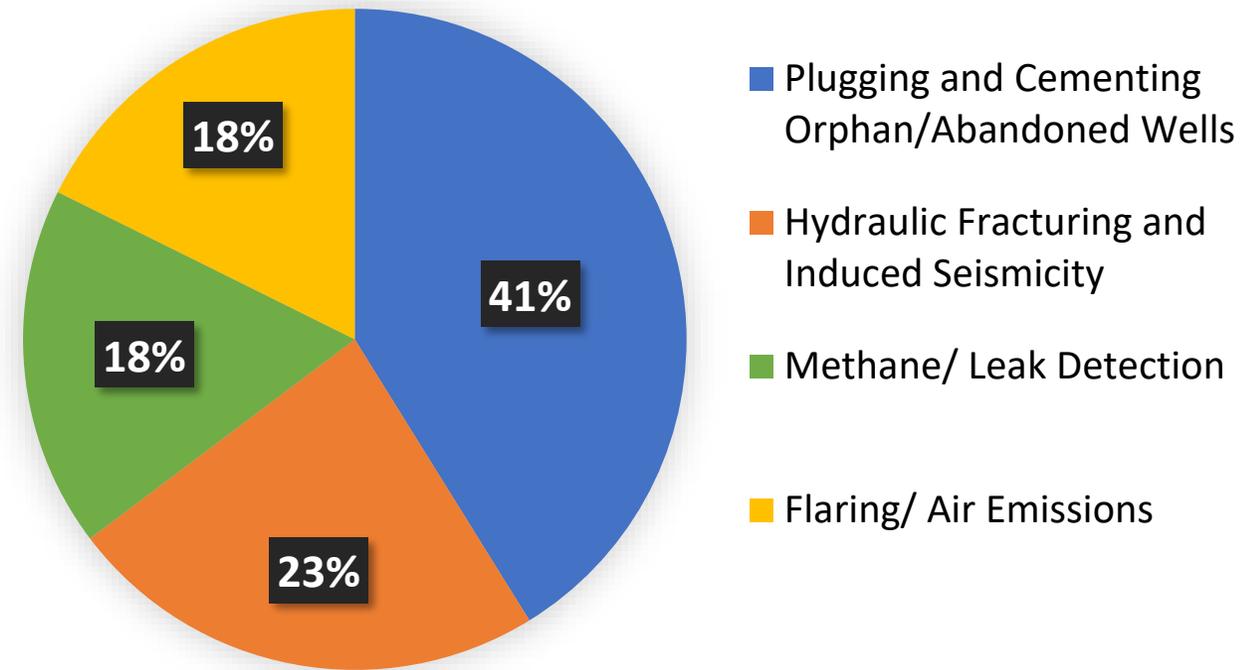
- Identify regulators' technical issues of concern and compile responsive technical information.
- Establish a two-way communication process between IOGCC regulators and technical societies.
- Assist regulators' awareness and responsiveness to the evolving technical and operational industry practices.

# Process of Updating Portal for 2021

## CRO Summer and Fall Results 2020



## Survey Results 2020



# 2021 Technical Topics

## 1. Plugging and Remediating Orphan Wells and Sites

- Locating and Assessing Orphan Wells and Restoring Sites and Habitats
- Plugging and Cementing Technologies and Procedures

## 2. Venting and Flaring

- Methane Detection and Flaring Reduction Technologies
- Beneficial Uses of Flared Gas

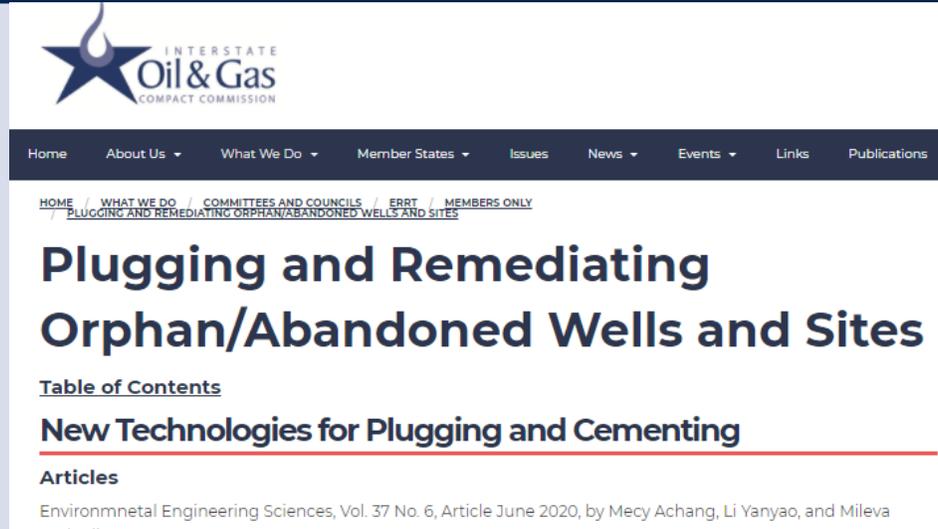
## 3. EOR/Hydrogen

- Effect of CO<sub>2</sub> on Down Hole Equipment
- Hydrogen production, transportation, and storage

## 4. Hydraulic Fracturing/Completions

- Proactive Techniques for Mitigating Induced Seismicity
- Simultaneous Fracs and Frac Hits

# Most Requested Technical Topic



INTERSTATE  
Oil & Gas  
COMPACT COMMISSION

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/ PLUGGING AND REMEDIATING ORPHAN/ABANDONED WELLS AND SITES

## Plugging and Remediating Orphan/Abandoned Wells and Sites

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### New Technologies for Plugging and Cementing

**Articles**

Environmental Engineering Sciences, Vol. 37 No. 6, Article June 2020, by Mery Achang, Li Yanyao, and Mileva

## Articles

American Petroleum Institute, Bulletin E3 Second Edition April 2018, by API Subcommittee on Well Cements  
**"Wellbore Plugging and Abandonment Practices"**

American Petroleum Institute, API New Standard 65-3, E3 June 7, 2021, by API Subcommittee  
(Paper contributed by API)  
**"Wellbore Plugging and Abandonment"**

## Articles

American Petroleum Institute, Bulletin E3 Second Edition April 2018, by API Subcommittee on Well Cements  
**"Wellbore Plugging and Abandonment Practices"**

American Petroleum Institute, API New Standard 65-3, E3, by API Subcommittee  
(Paper contributed by API)  
**"Wellbore Plugging and Abandonment"**

EDP Sciences - E3S Web of Conferences 67, Article January 2018, by Muhammad Asyri and Kamarza Mulia  
**"Study of Microfine Cement Use on Squeeze Cementing Operations in Plug and Abandonment Work"**

# Contributed Materials



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## Articles

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Elementa: Science of the Anthropocene, Article March 24, 2021, by Evan D. Sherwin, Yuanlei Chen, Arvind P. Ravikumar, and Adam R. Brandt

**"Single-Blind Test of Airplane-Based Hyperspectral Methane Detection via Controlled Releases"**

American Chemical Society Publications, Article June 2, 2021, by Daniel H. Cusworth, Riley M. Duren, Andrew K. Thorpe, et. al.

**"Intermittency of Large Methane Emitters in the Permian Basin"**

Columbia University - Center on Global Energy Policy, Article October 14, 2020, by Jonathan Elkind, Erin M. Blanton, Hugo Denier Van Der Gon, Dr. Robert Kleinberg, and Anton Leemhuis

**"Nowhere to Hide: Implications for Policy, Industry and Finance of Satellite-Based Methane Detection"**

Elementa: Science of the Anthropocene, Article September 10, 2019, by Arvind P. Ravikumar, Sindhu Sreedhara, Jingfan Wang, et. al.

**"Single-Blind Inter-Comparison of Methane Detection Technologies - Results from the Stanford/EDF Mobile Monitoring Challenge"**

**"BP Deploys Continuous Methane Measurement for New Major Oil and Gas Projects"**

Interstate Technology and Regulatory Council (ITRC), Document September 28, 2018, by The ITRC Evaluation of Innovative Methane Detection Technologies Team

**"Evaluation of Innovative Methane Detection Technologies"**

Methane Guiding Principles, Guide September 2020, by Methane Guiding Principles partnership



# Subject Matter Experts

## Subject Matter Experts

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## Plugging and Remediating Orphan/Abandoned Wells and Sites

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Expertise: Orphan/Idle Wells

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Expertise: Well Integrity, Well Operations, Plugging, Orphan Well Management, and Produced Water Management

# Portal Going Forward

- Review CRO notes and upcoming survey results for 2022 portal
- Continue to connect with technical societies and expand their participation in the effort
- Send out quarterly emails to IOGCC-member regulators about portal updates
- Continue using Google Analytics

# Thank you!

# Questions?